

CLAIM AMENDMENTS

1. (original) A method which comprises exposing an oxidized white liquor produced by oxidizing a white liquor with oxygen containing gas in the presence of lime mud, manganese dioxide or both, to a controlled temperature effective to increase the concentration of PS_{UV} measured at 285 or 286 nm or PS_{VIS} measured at 416 nm and the PS_{UV}/PS_{GR} or PS_{VIS}/PS_{GR} ratio of polysulphide in the oxidized white liquor.
2. (original) A method according to claim 1, wherein said temperature is 20°C to 95°C and said exposing is for a time up to 72 hours.
3. (original) A method according to claim 2, wherein said oxidized white liquor is maintained at a temperature of 50°C to 90°C for 1 to 48 hours.
4. (original) A method of increasing the concentration of PS_{UV} measured at 285 or 286 nm or PS_{VIS} measured at 416 nm and the PS_{UV}/PS_{GR} or PS_{VIS}/PS_{GR} ratio of a polysulphide liquor generated by oxidation of white liquor in the presence of lime mud, manganese dioxide or both, said method comprising heating or cooling if necessary and then storing said polysulphide liquor at a temperature between 20°C and 95°C for a time of up to 72 hours.
5. (original) A method according to claim 4, wherein said polysulphide liquor is maintained at a temperature of 50°C to 90°C for 1 to 48 hours.
6. (cancelled)
7. (cancelled)
8. (cancelled)
9. (cancelled)

10. (cancelled)

11. (original) A method of producing an oxidized white liquor containing polysulphide comprising:

- i) oxidizing a white liquor with oxygen containing gas in the presence of lime mud, manganese dioxide or both to produce an oxidized white liquor containing polysulphide and having a first PS_{UV} concentration measured at 285 or 286 nm or PS_{VIS} concentration measured at 416 nm or PS_{UV}/PS_{GR} or PS_{VIS}/PS_{GR} ratio, and
- ii) heating or cooling if necessary and then storing said oxidized white liquor to produce an oxidized white liquor having a second PS_{UV} concentration measured at 285 or 286 nm or PS_{VIS} concentration measured at 416 nm or PS_{UV}/PS_{GR} or PS_{VIS}/PS_{GR} ratio, wherein said second concentration or ratio is greater than said first ratio.

12. (original) A method according to claim 11, wherein step ii) comprises heating or cooling if necessary said oxidized white liquor to a temperature of 20°C to 95°C and storing said oxidized white liquor for a time up to 72 hours.

13. (original) A method according to claim 12, wherein said temperature is 50 to 90°C and said time is 1 to 48 hours.

14. (original) A method according to claim 13, including prior to step i):

causticizing a green liquor with lime in the presence of manganese dioxide to produce said white liquor and lime mud containing said manganese dioxide.

15. (previously presented) A method according to claim 1 wherein said exposing is for 6 to 30 hours.

16. (previously presented) A method according to claim 1 wherein said exposing is for 12 to 24 hours.

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17. (previously presented) A method according to claim 11 wherein step ii) is carried out for a time of 6 to 30 hours.

18. (previously presented) A method according to claim 11 wherein step ii) is carried out for a time of 12 to 24 hours.